Monitoring Data Record

Project Title: R-2210A Site 1 (Waynesville Site 1) COE Action ID: 200130653
Stream Name: Raccoon Creek DWQ Number: 010409
City, County and other Location Information: Sta. 30 on Bus. 23 S in Waynesville, Haywood Co.
Date Construction Completed: July 2003 (lower portion), 2005 (upper portion)
Monitoring Year: (3) of 5
Ecoregion: 8 digit HUC unit 06010106
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 1225' Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: M. Green and J. Young Date: 2/28/07
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (**1**) ~~2~~ ~~3~~
Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*
Permit States: NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

Section 1. PHOTO REFERENCE SITES
(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 6 reference points, 2 photos at each
Dates reference photos have been taken at this site: 5/20/04, 11/1/04, 5/31/05, 3/21/06, 10/18/06, 2/28/07

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference:

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: Vegetation is dormant at this time. Vegetation noted onsite included tulip poplar, white oak, river birch, white pine, elderberry, silky dogwood, sycamore, black willow, red maple, willow oak, and thick herbaceous vegetation.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

Raccoon Creek is stabilized for the Year 3 Winter Evaluation. The minor bank erosion noted on past evaluations has stabilized with herbaceous vegetation. The j-hook in photo #3 has water flowing around this structure on the right bank. There is evidence that a bankfull event has taken place since the last monitoring visit. The overall stability of the stream is very good and no remedial action is needed at this time. NCDOT will continue to monitor this stream.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type	J-Hook				
Is water piping through or around structure?	Around Structure				
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

NOTE: Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

Waynesville Site 1

Photo 1 (Upstream)

Photo 2 (Downstream)

Photo 3 (Upstream)

Photo 4 (Downstream)

Photo 5 (Upstream)

Photo 6(Downstream)

Year 3 – February 2007

Waynesville Site 1

Photo 7 (Upstream)

Photo 8 (Downstream)

Photo 9 (Upstream)

Photo 10 (Downstream)

Photo 11 (Upstream)

Photo 12 (Downstream)

Year 3 – February 2007